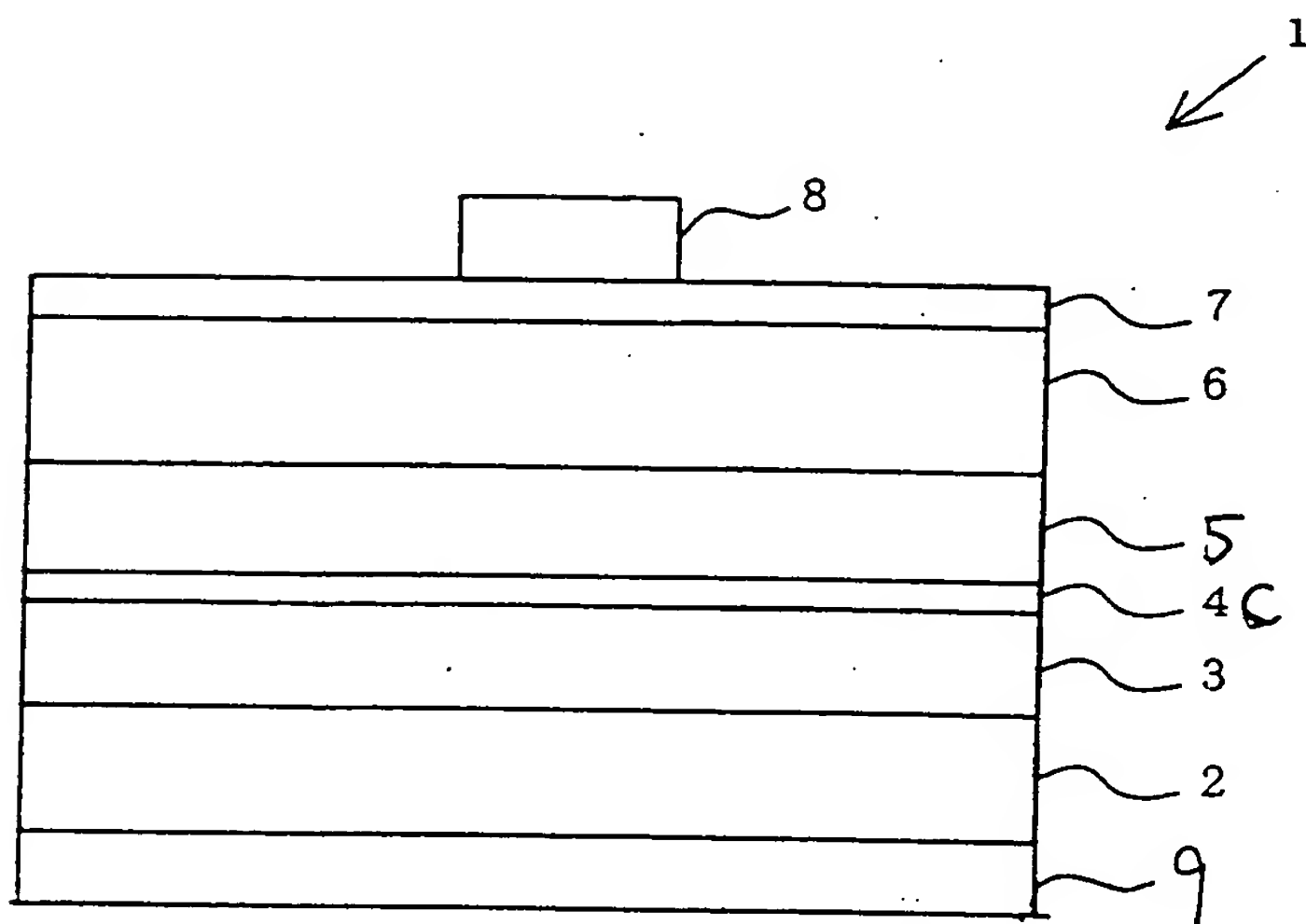
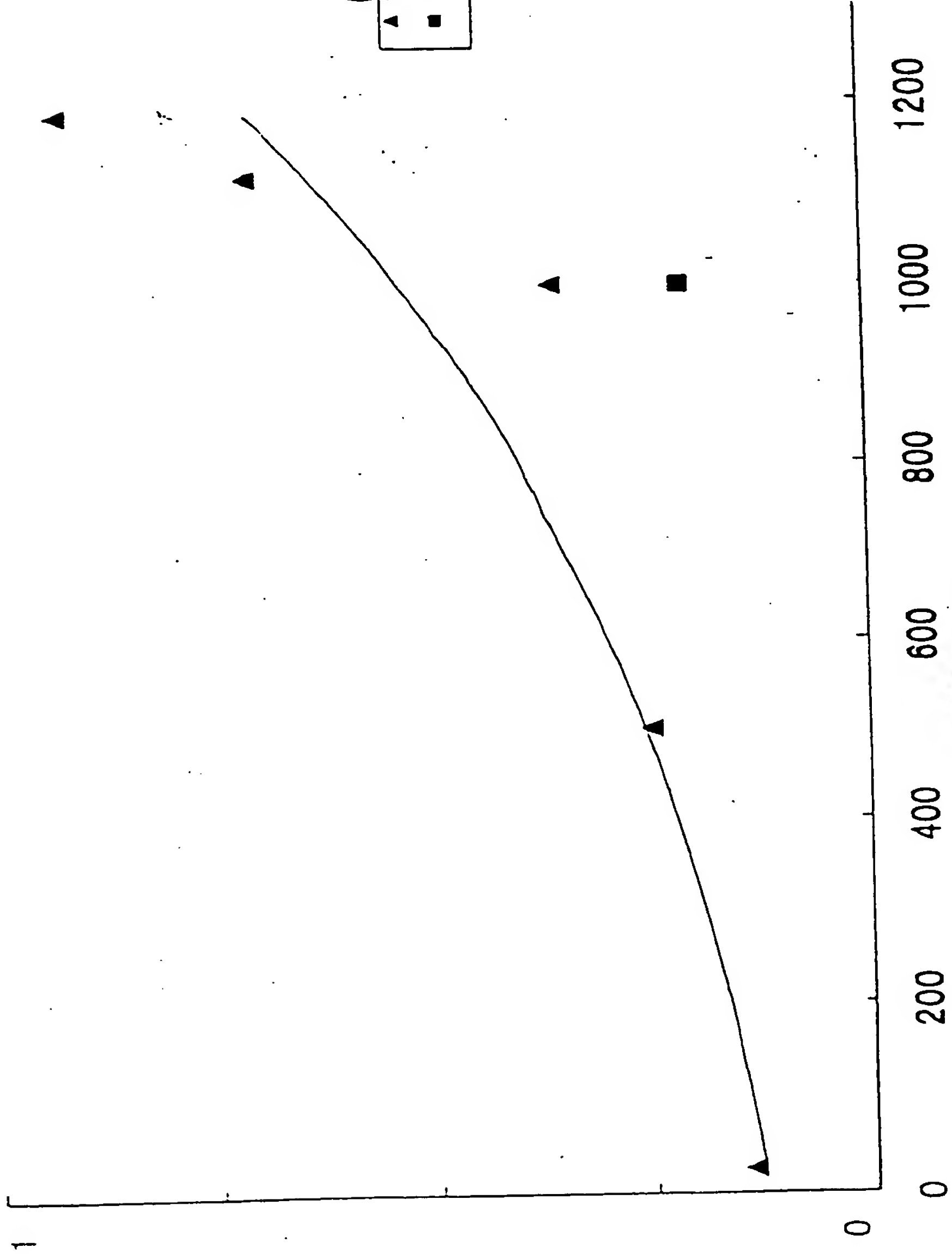


FIG. 1



In Hydrogen
In Vacuum

▲ 水中
■ 真空中



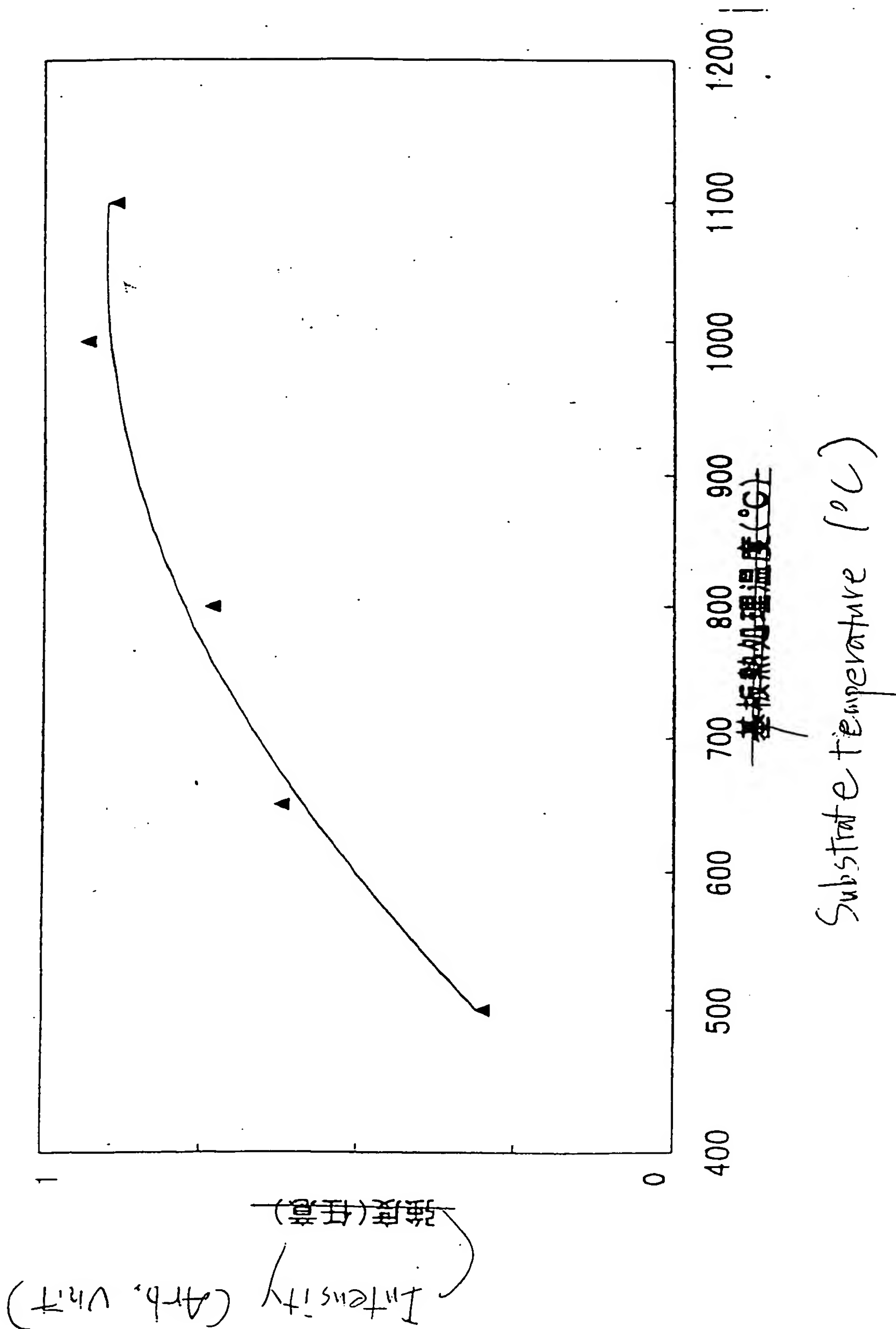
熱処理温度(°C)

Substrate temperature (°C)

強度(任意)
Intensity (Arb. unit)

TEST-094020F

FIG. 3



FOOTPRINT 0940200T

FIG. 4

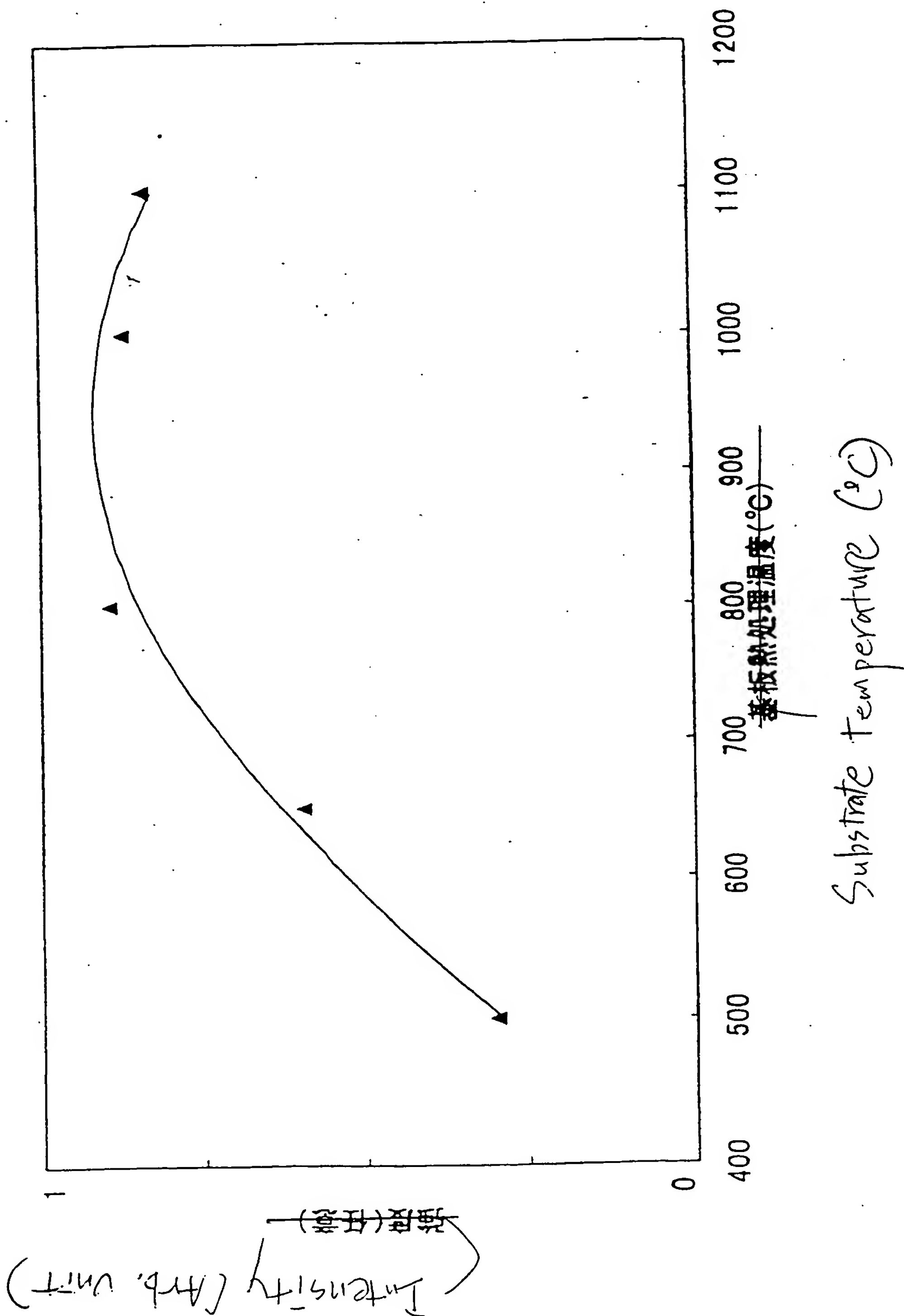


FIG. 5

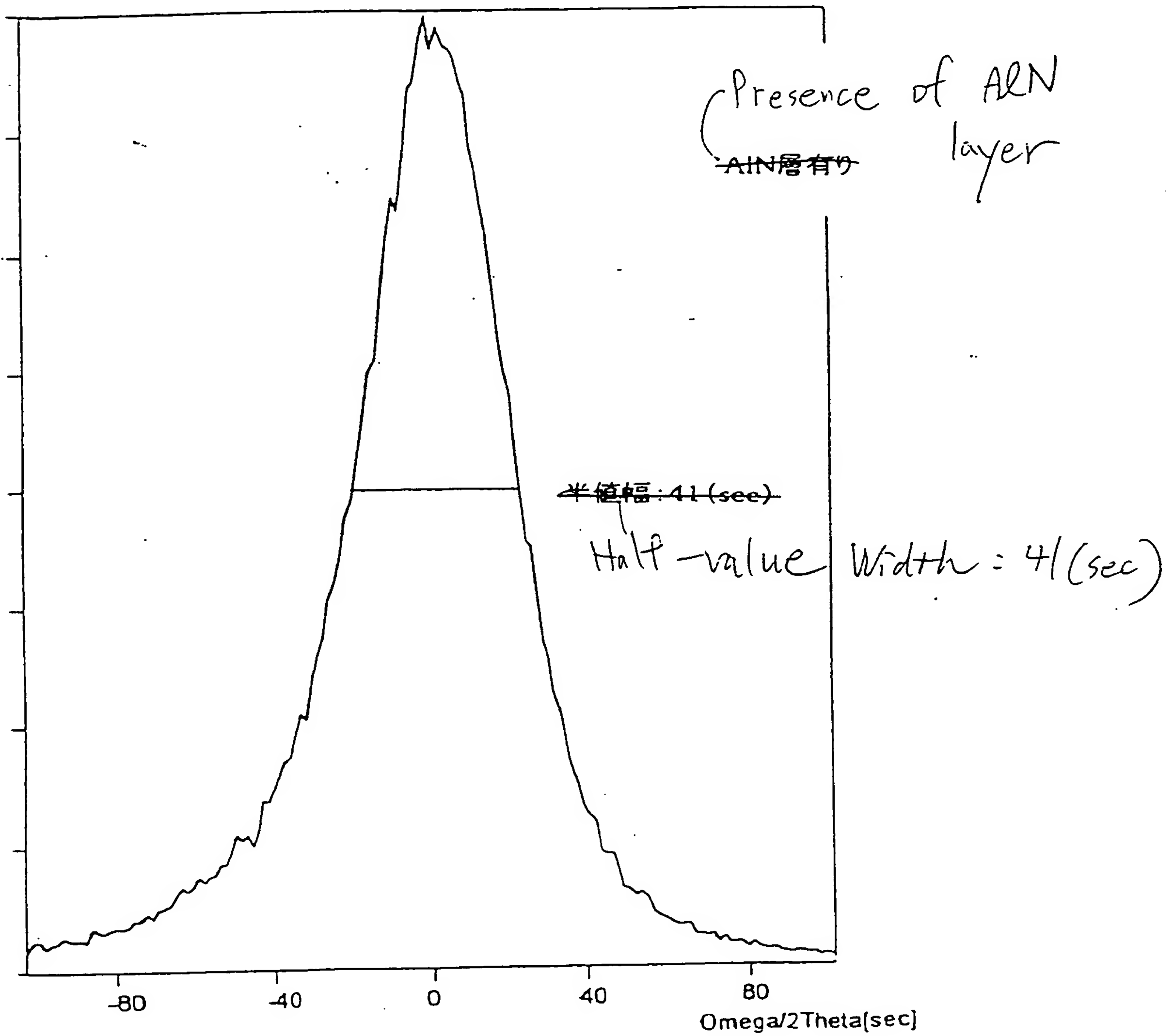
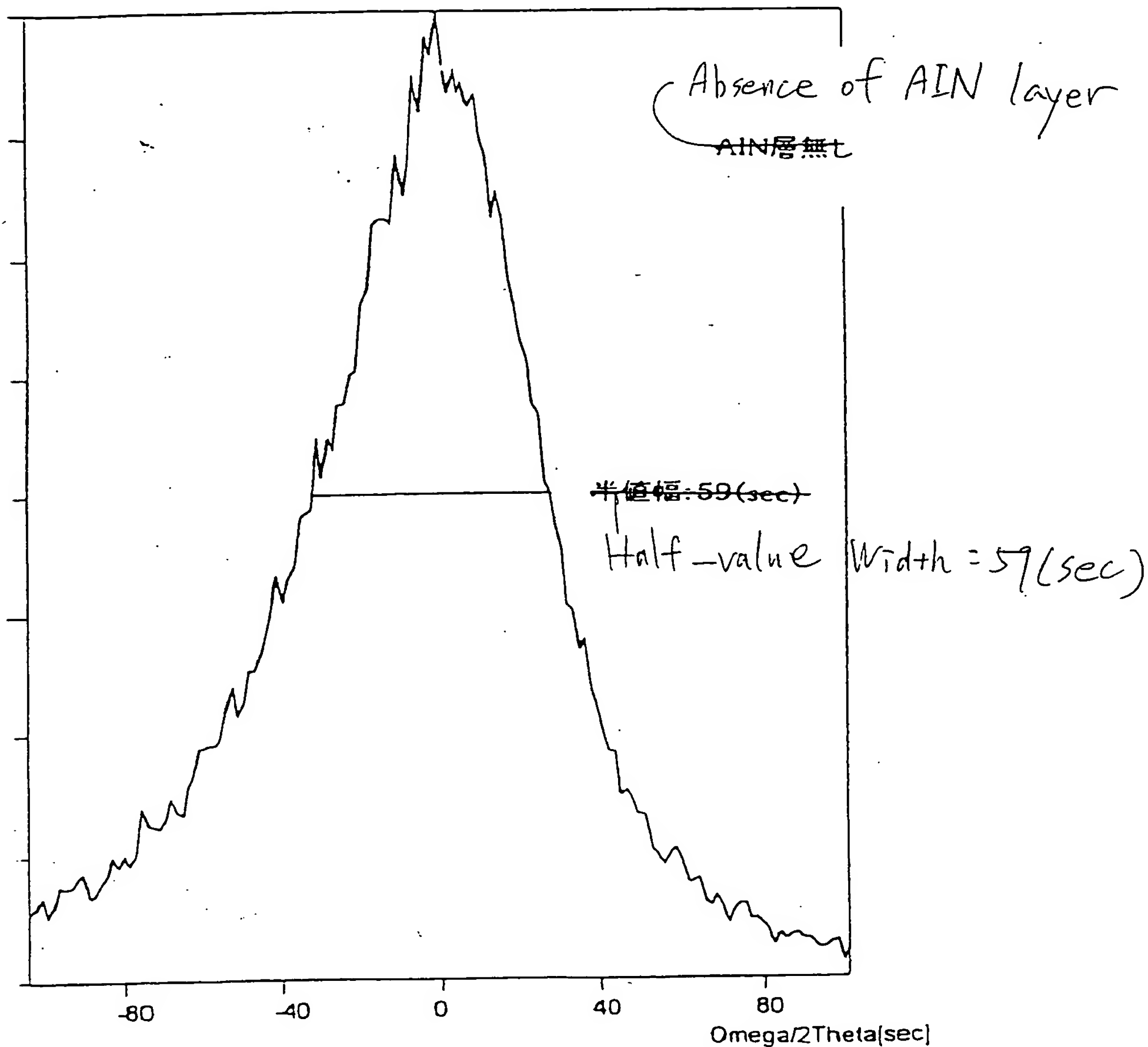


FIG. 6



10020450-121301

FIG. 7

Intensity (Arb. Unit)

強度(任意)

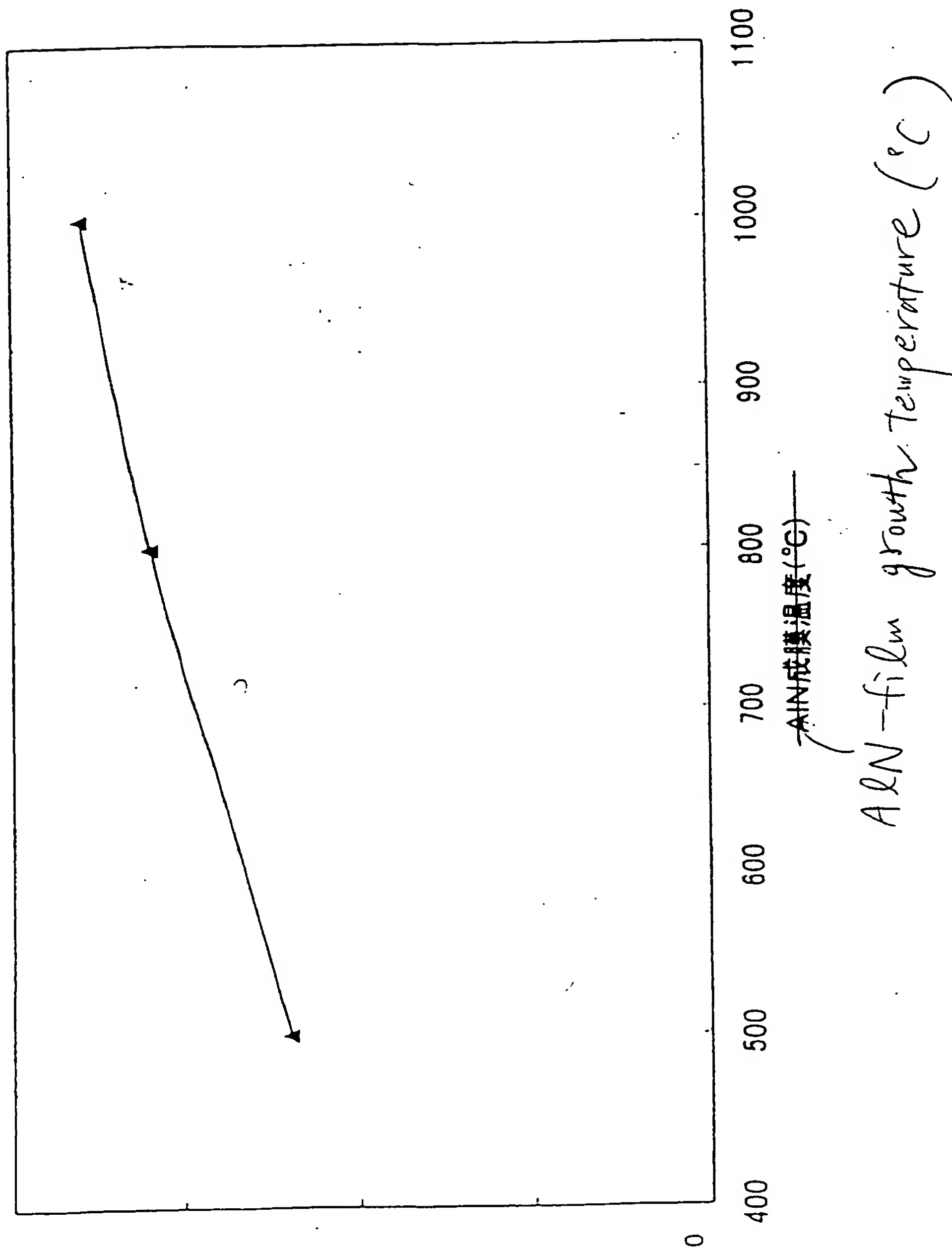


FIG. 8

~~GaNのX線ロッキングカーブ~~ X-ray rocking curve of GaN
GaN / AlN / TiN / Sap

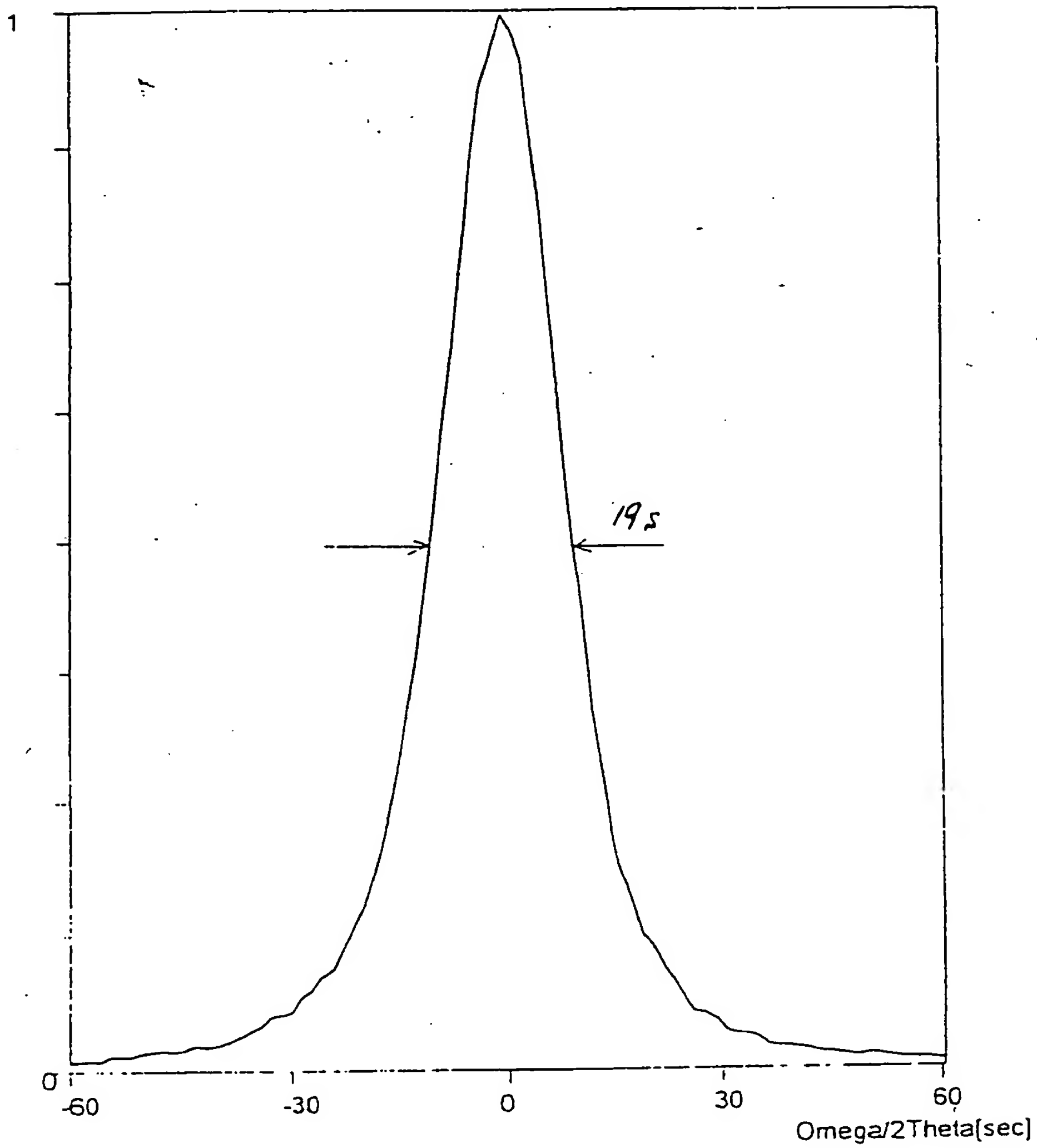
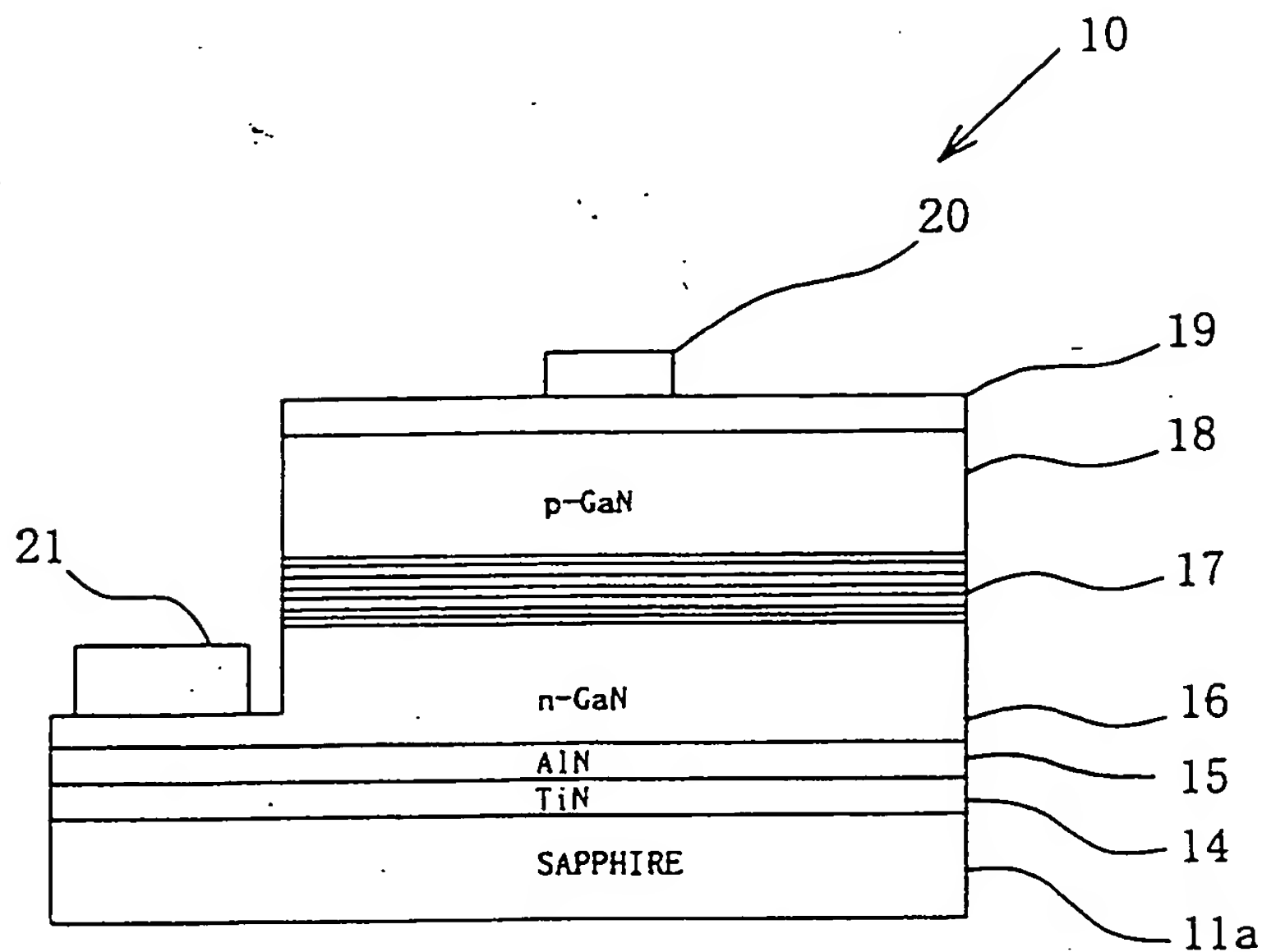
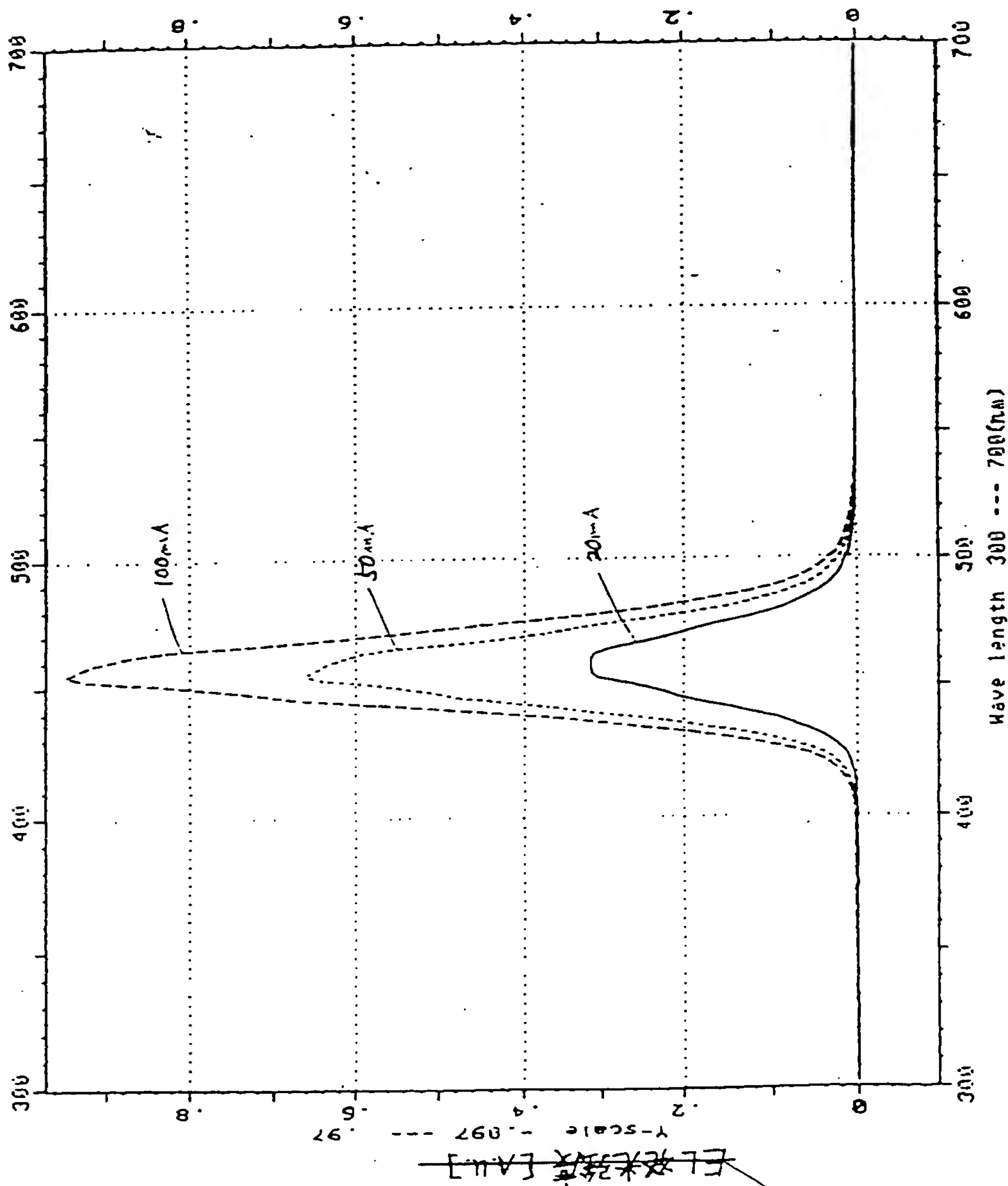


FIG. 9





Emission Light Intensity [A.u.]

~~EL発光強度 [A.u.]~~

FIG. 10
03402001

FIG. 11

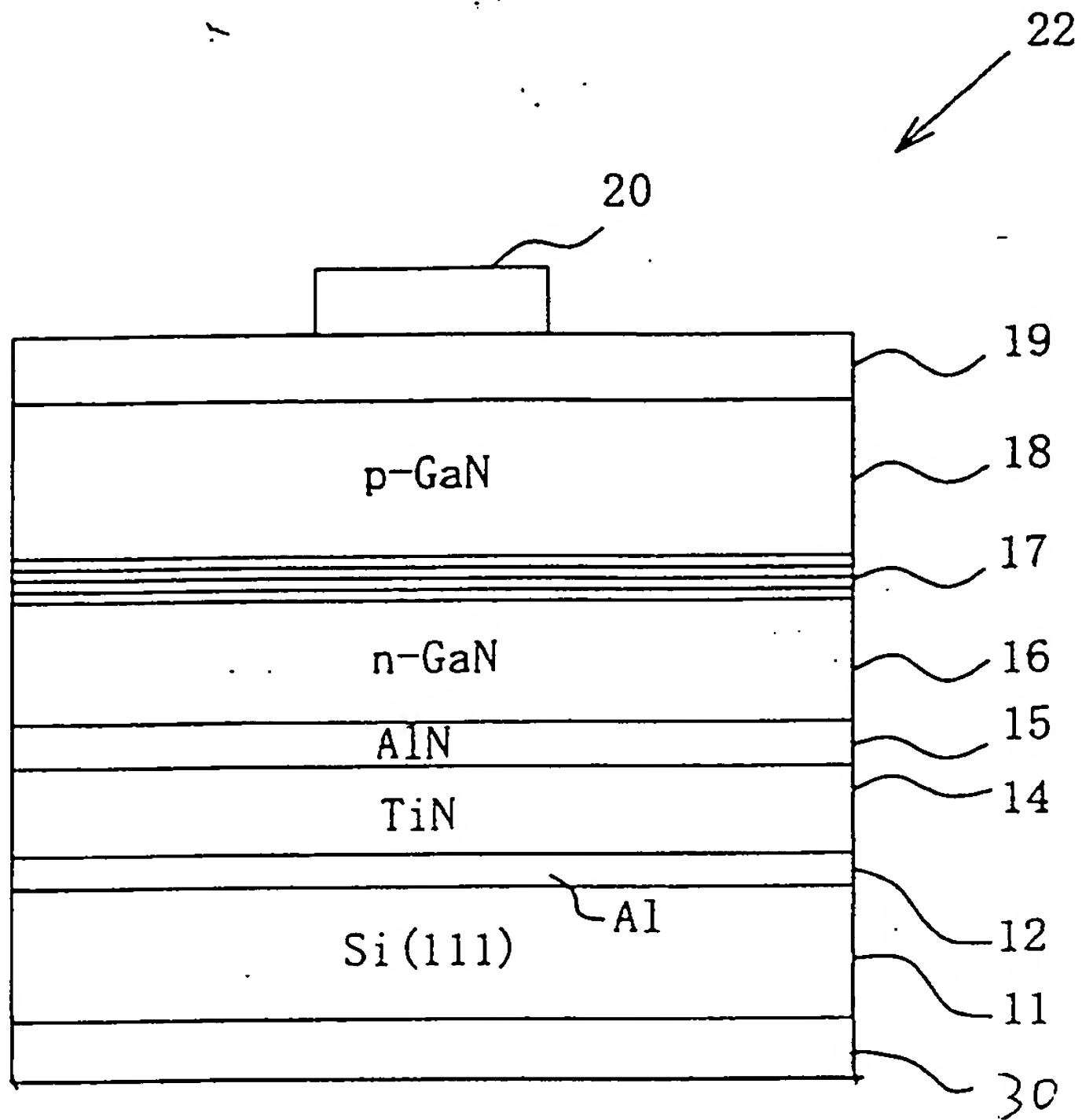
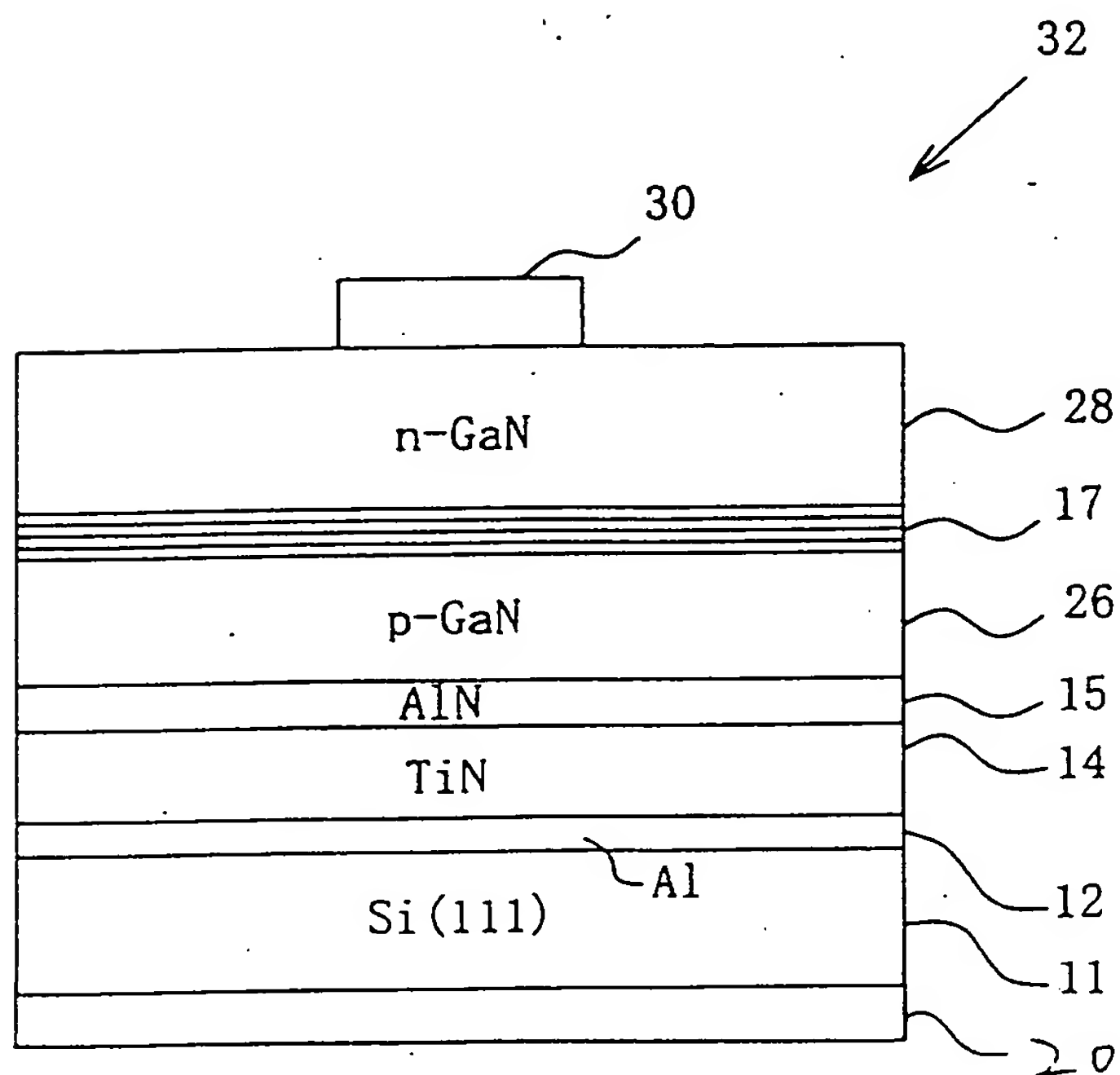


FIG. 12



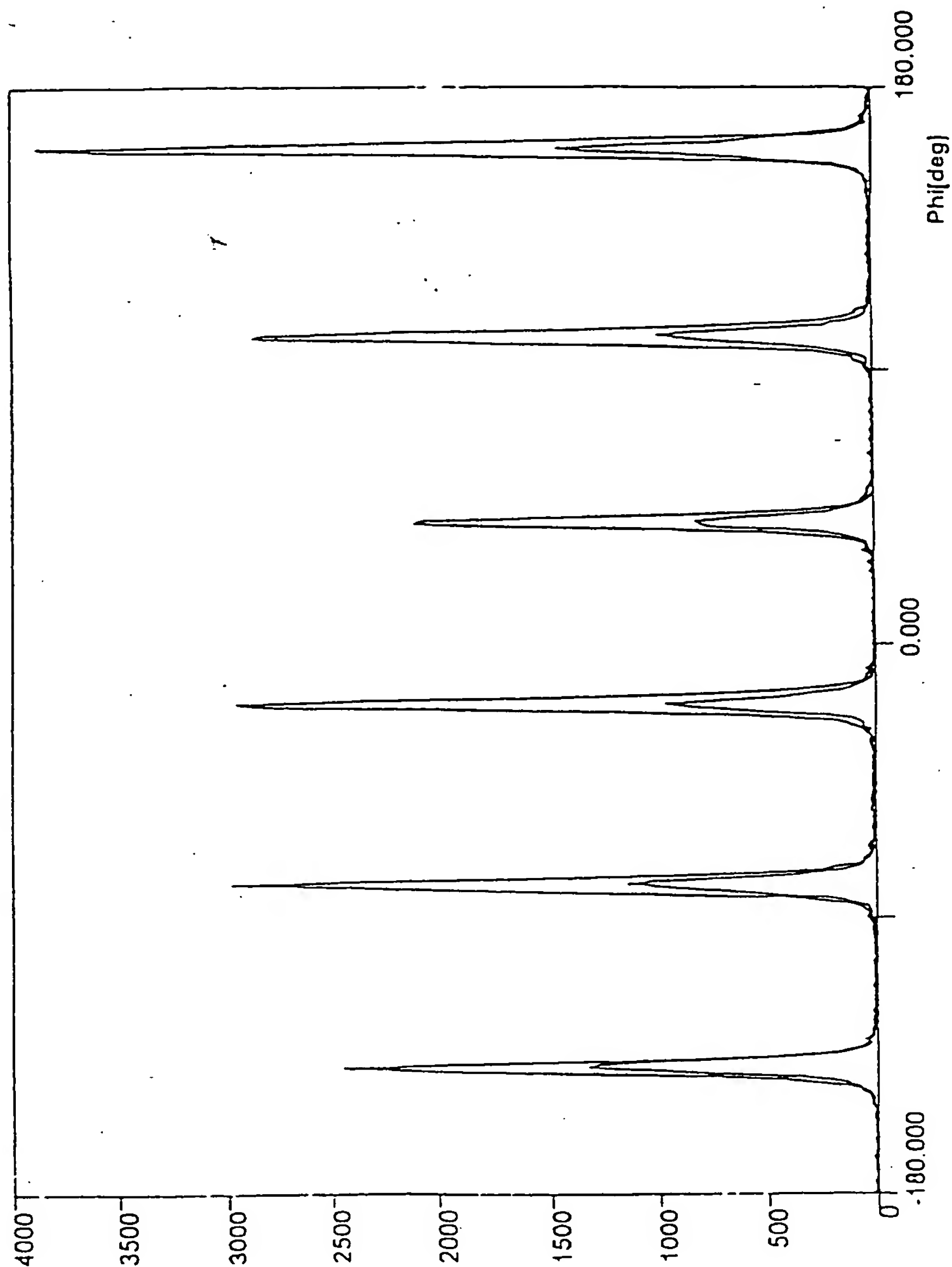
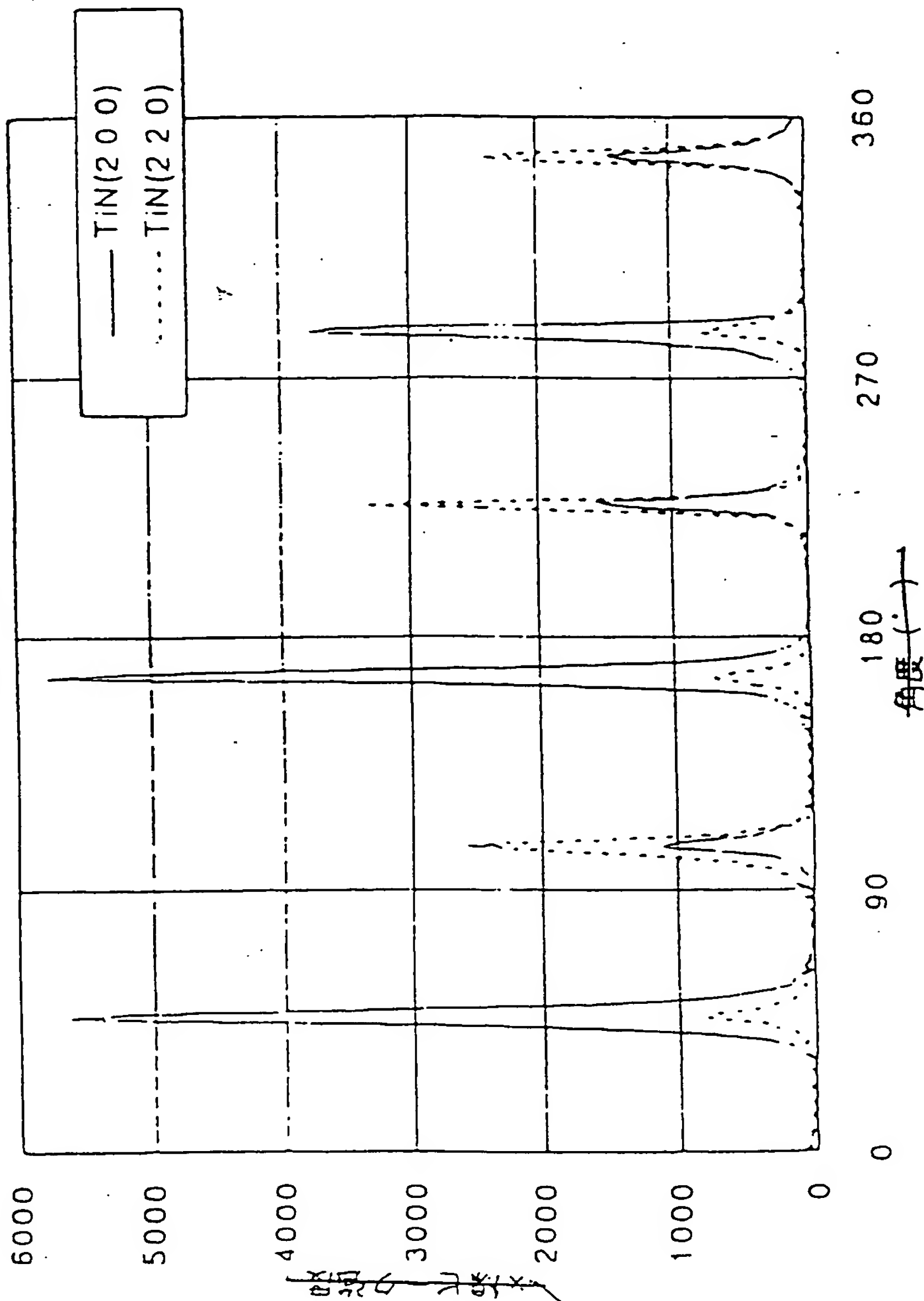
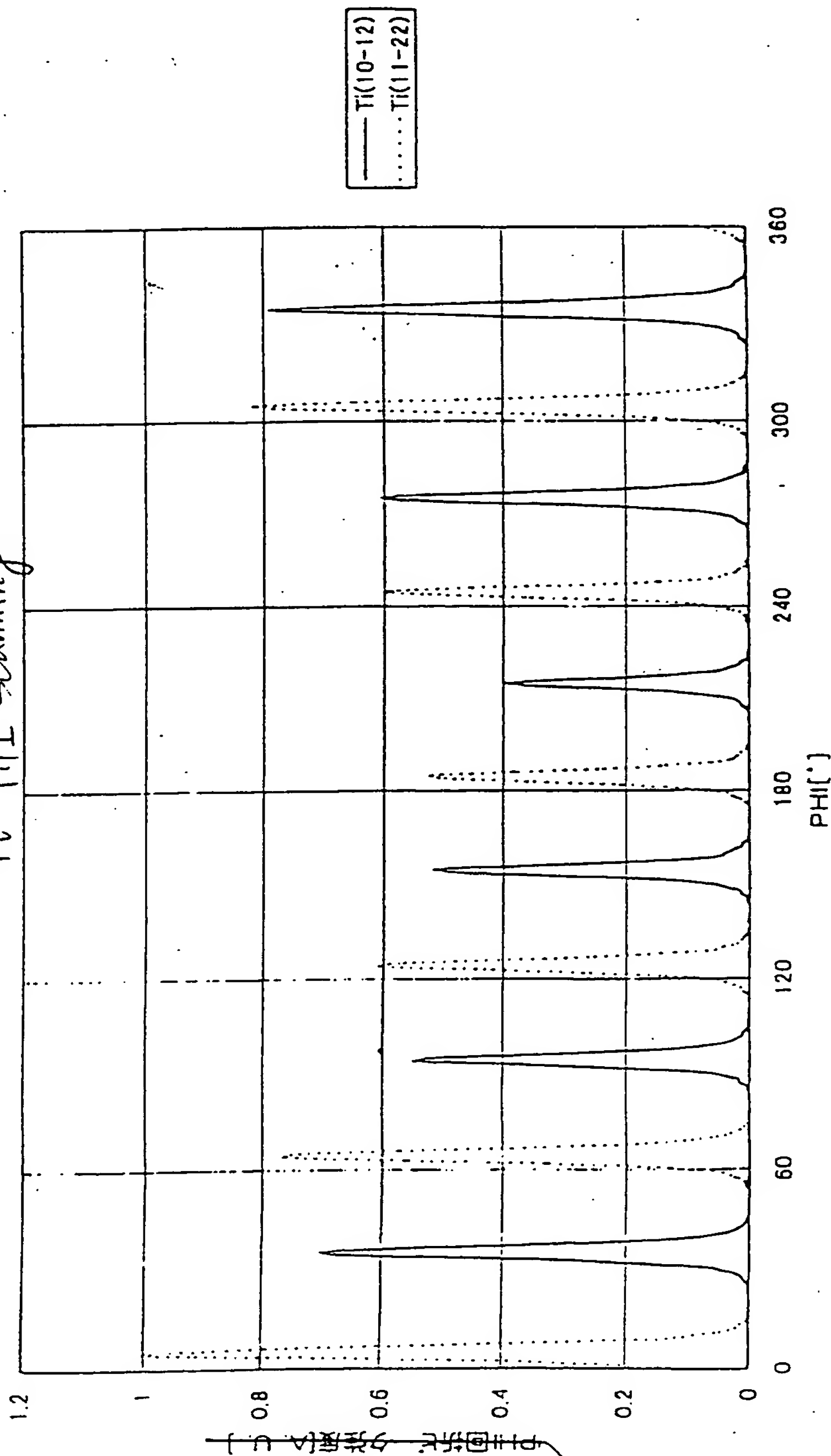


FIG. 13
XRD PATTERN

FDG 14000T
PHI Scanning



X-ray Peak Intensity



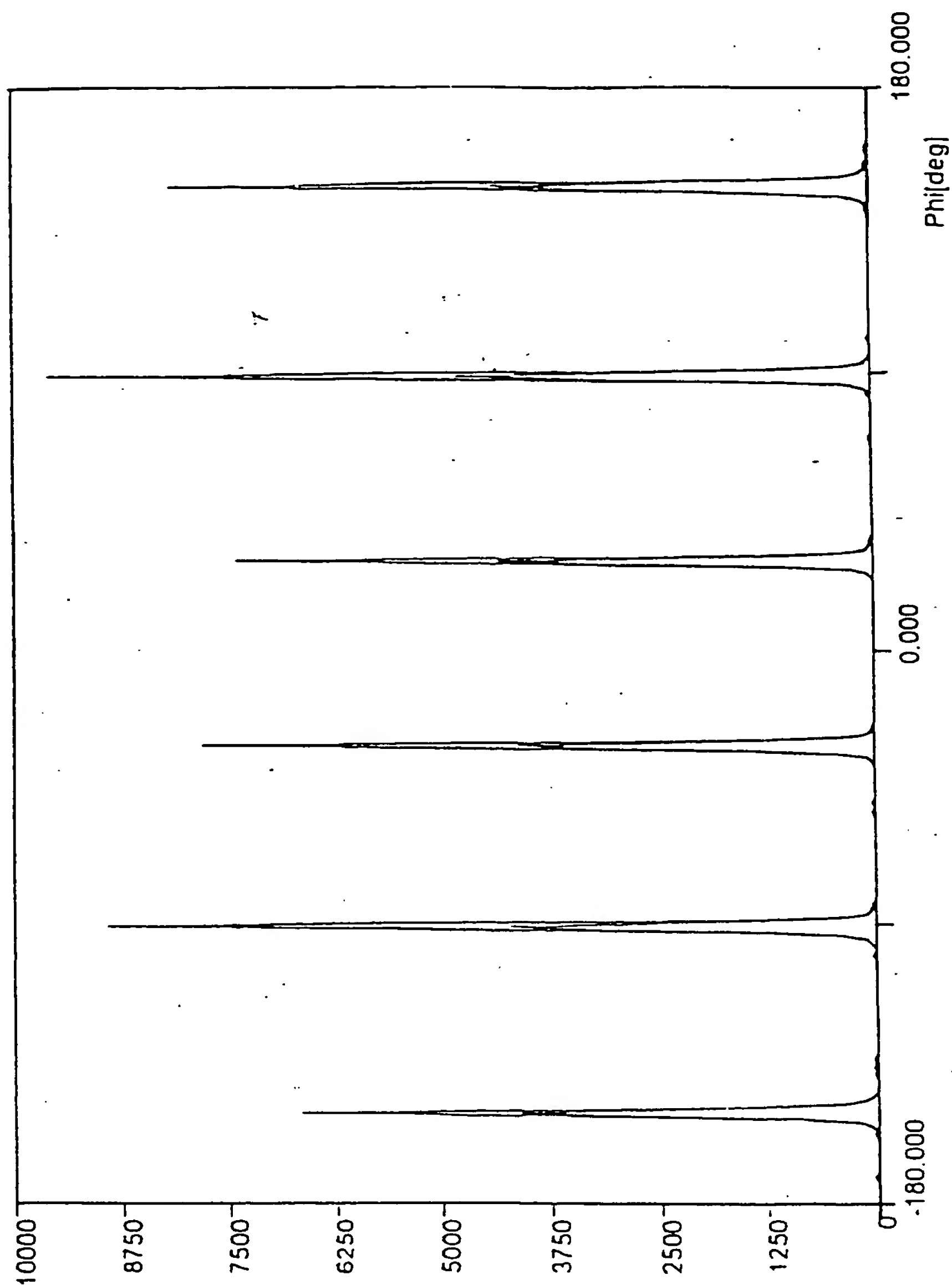
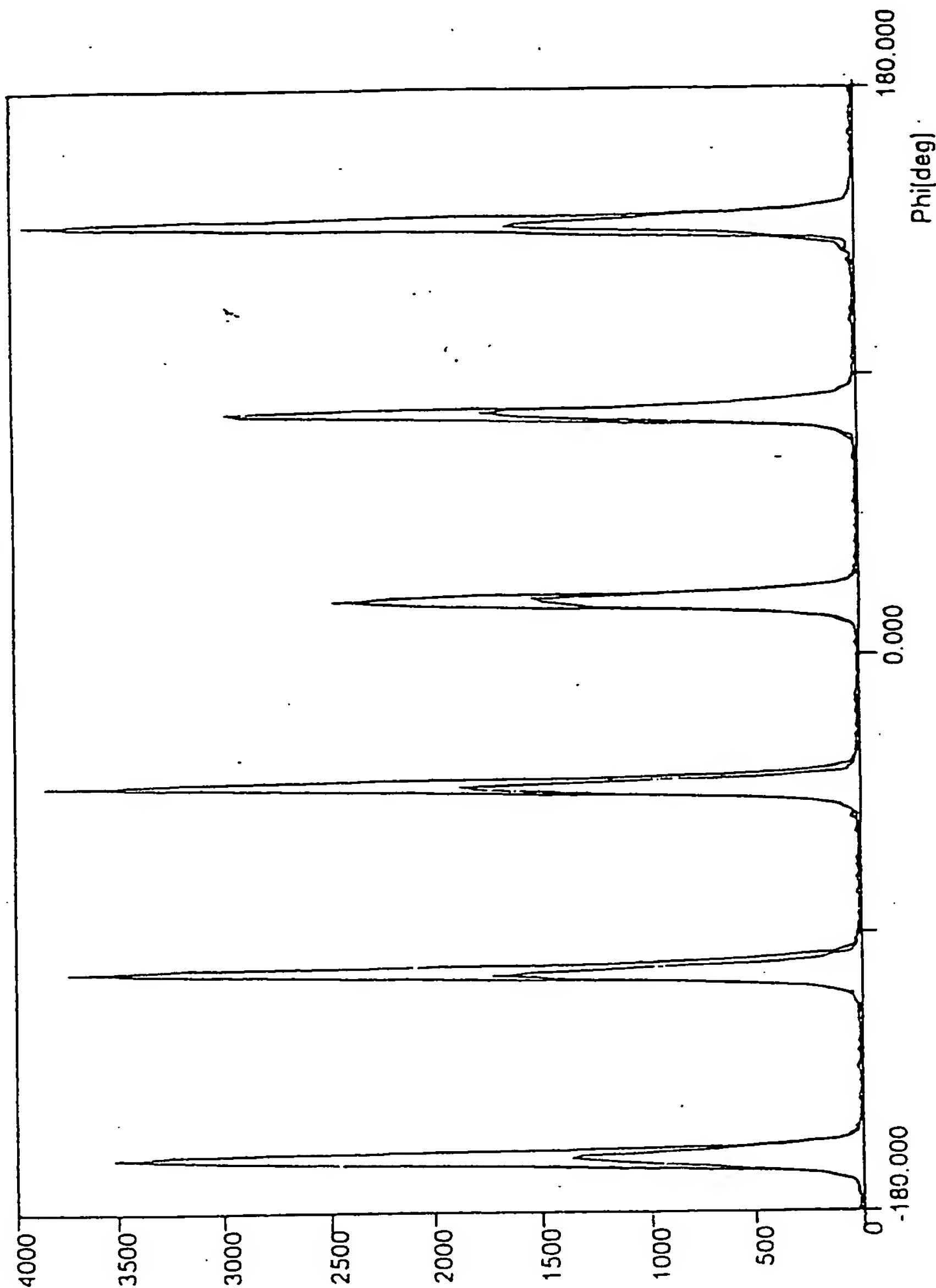
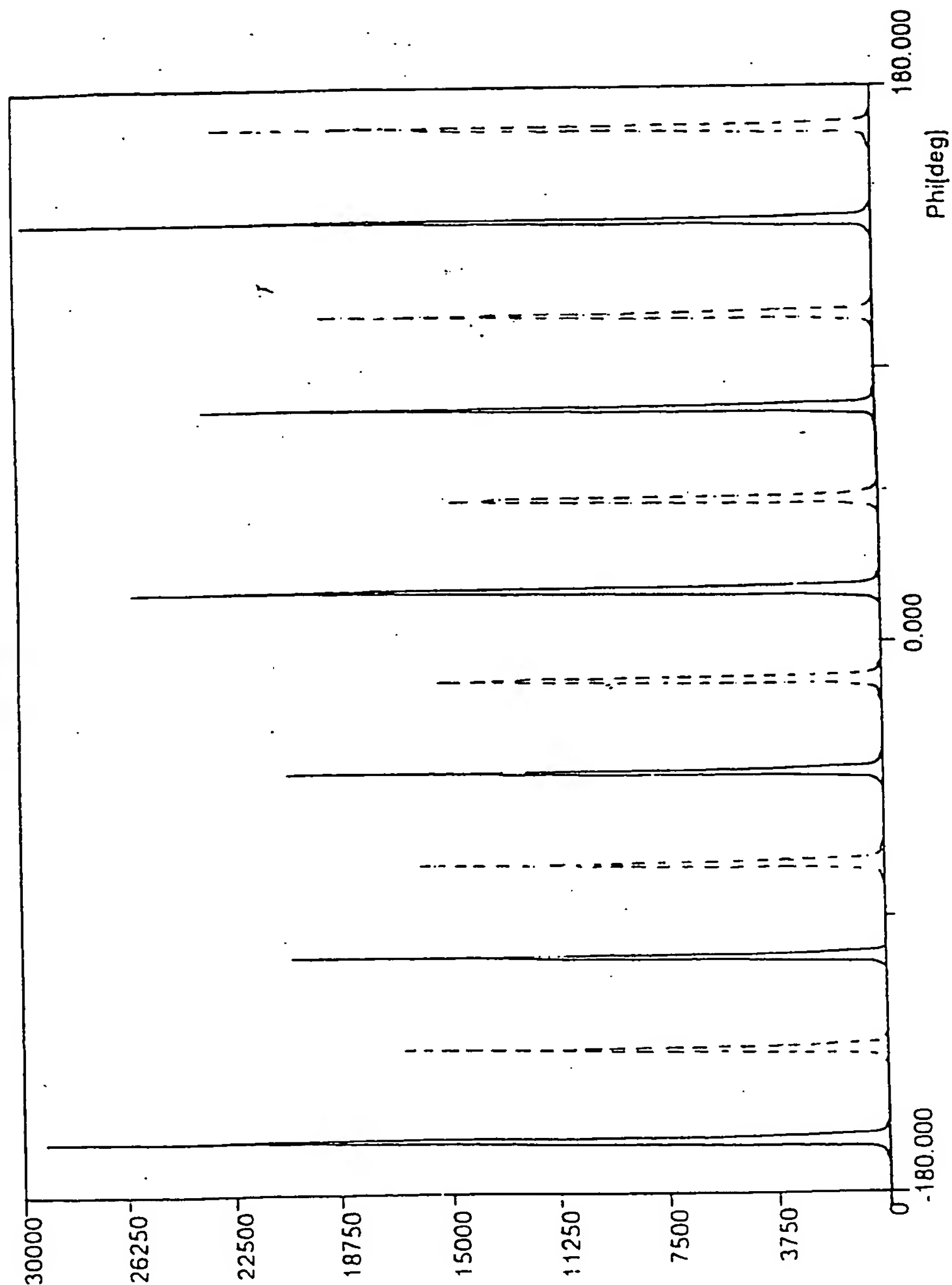


Fig. 16

FIG. 17





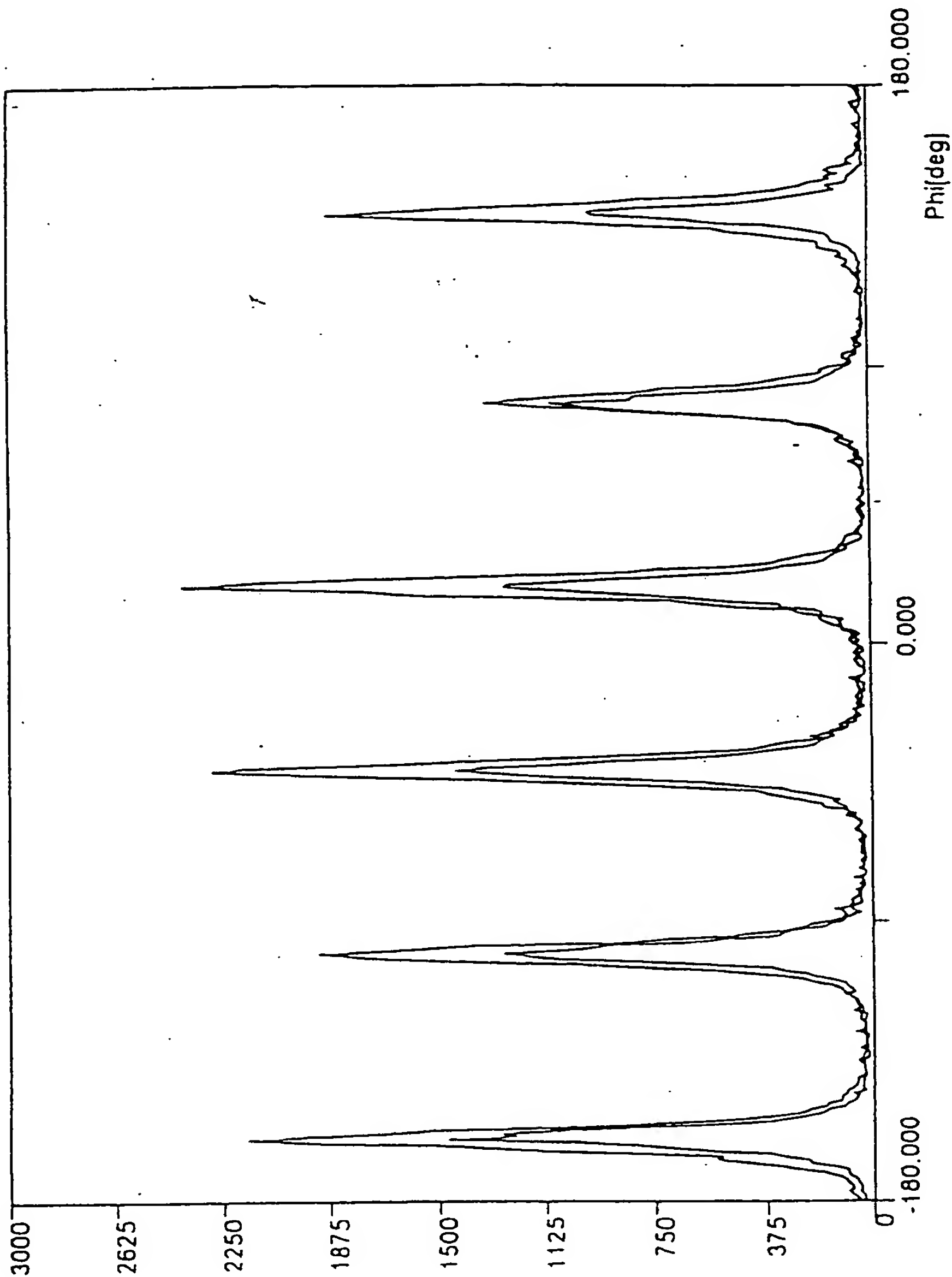
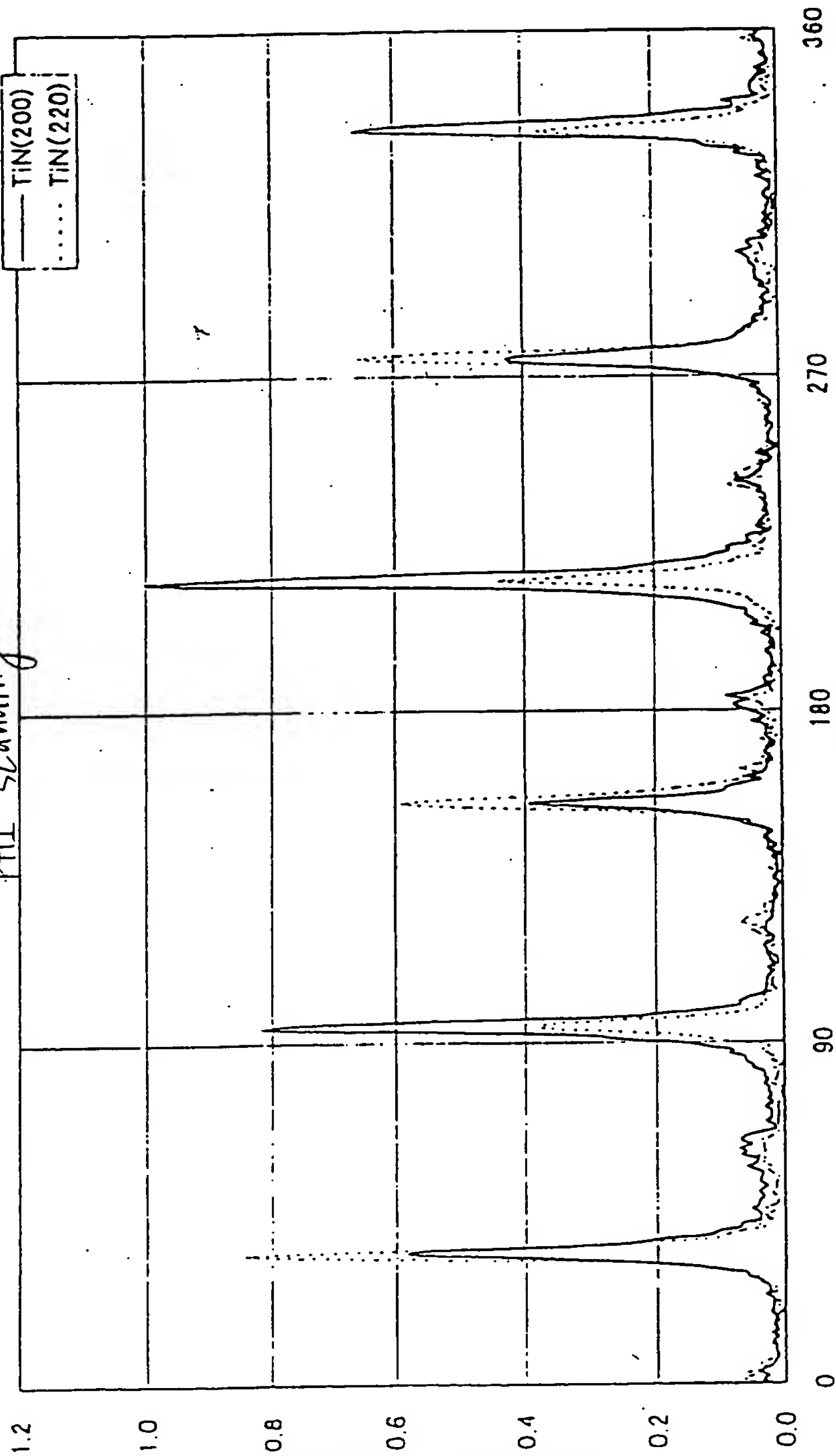


Fig 20 03402001

X-ray Diffraction Peak Intensity [A.U.]



Angle [°]

X-ray Diffraction Peak Intensity [A.U.]

FIG 21

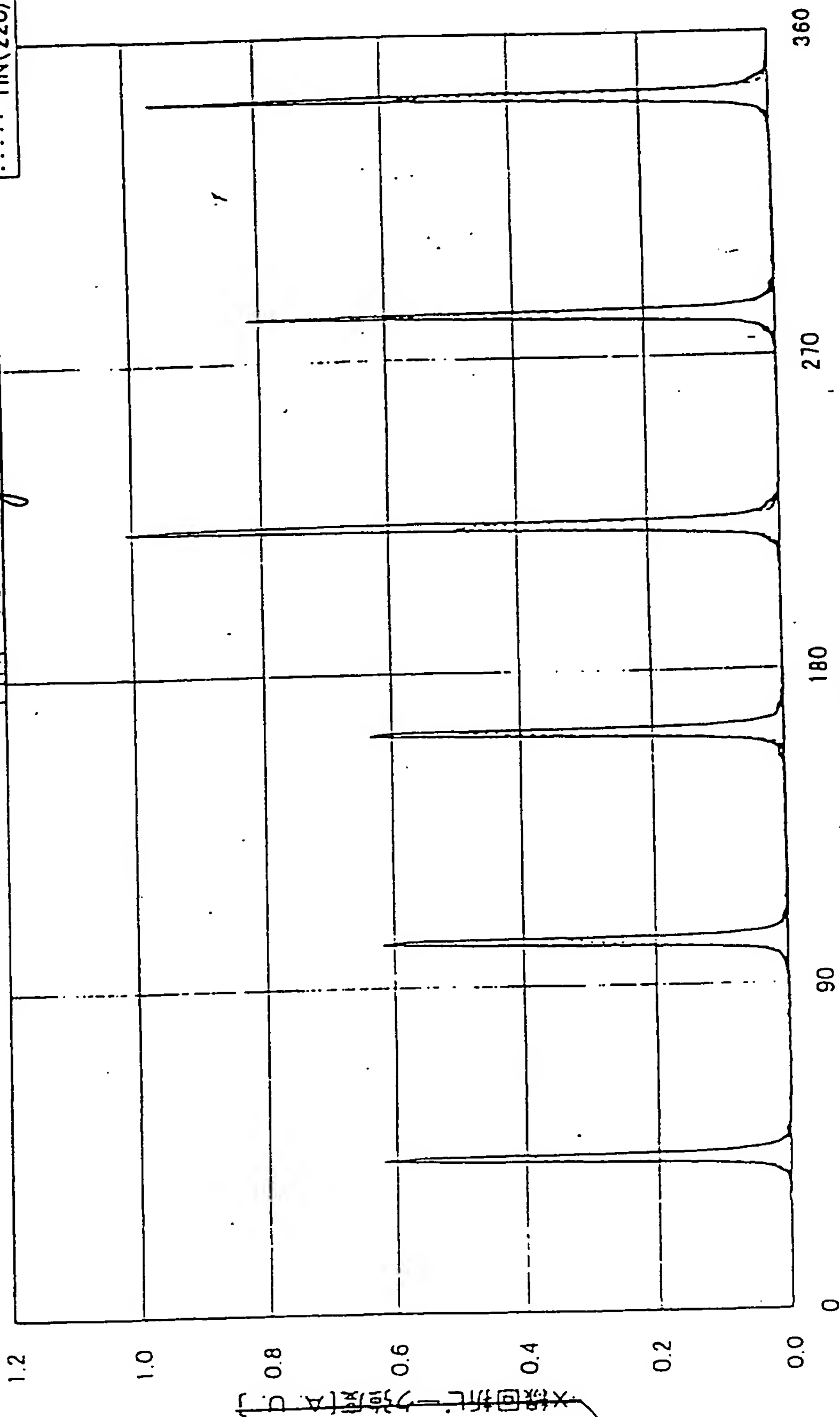
0340200T

TiN/GaN

~~PHI Scanning~~

PHI Scanning

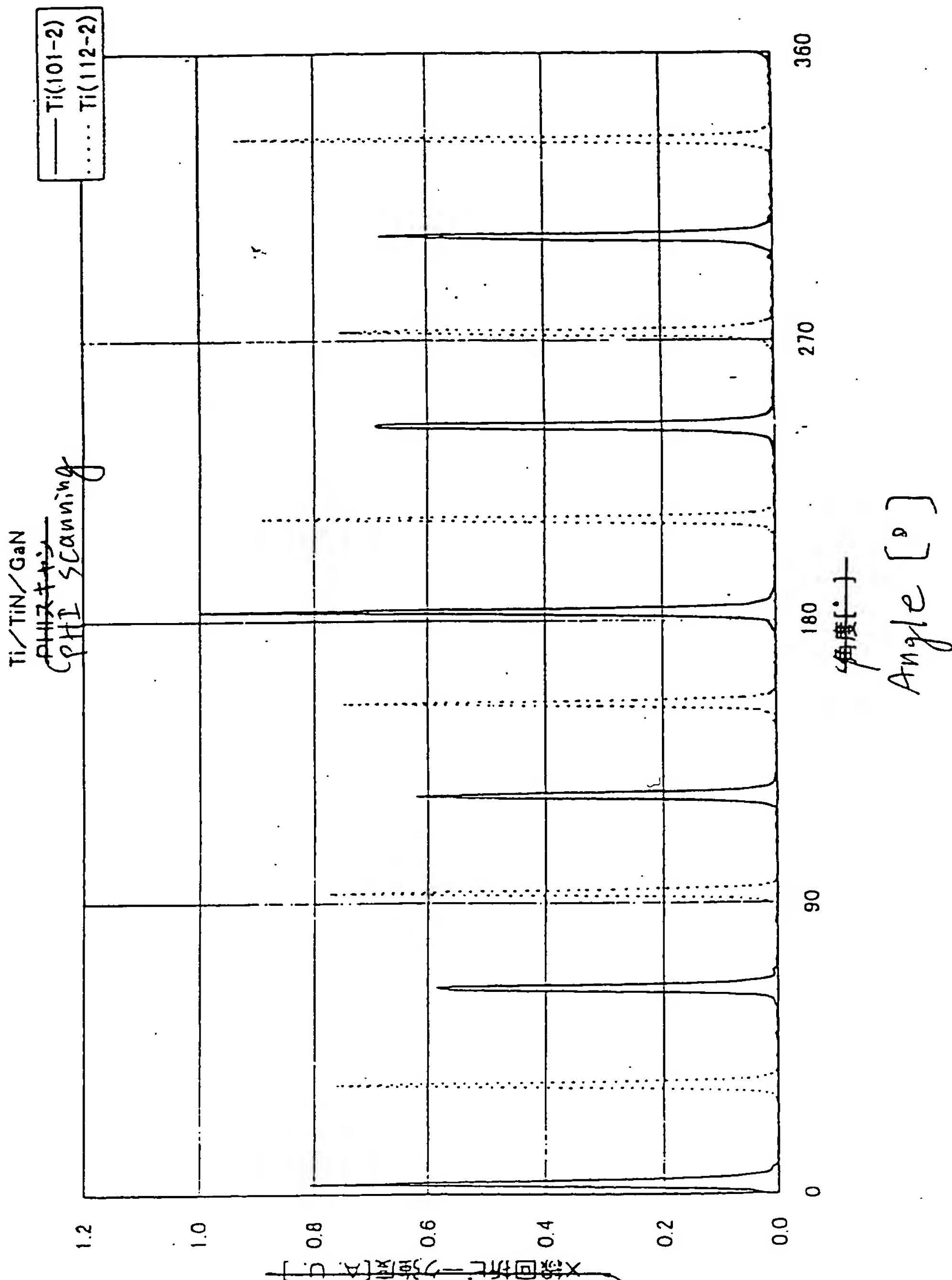
— TiN(200)
..... TiN(220)



~~Angle [°]~~

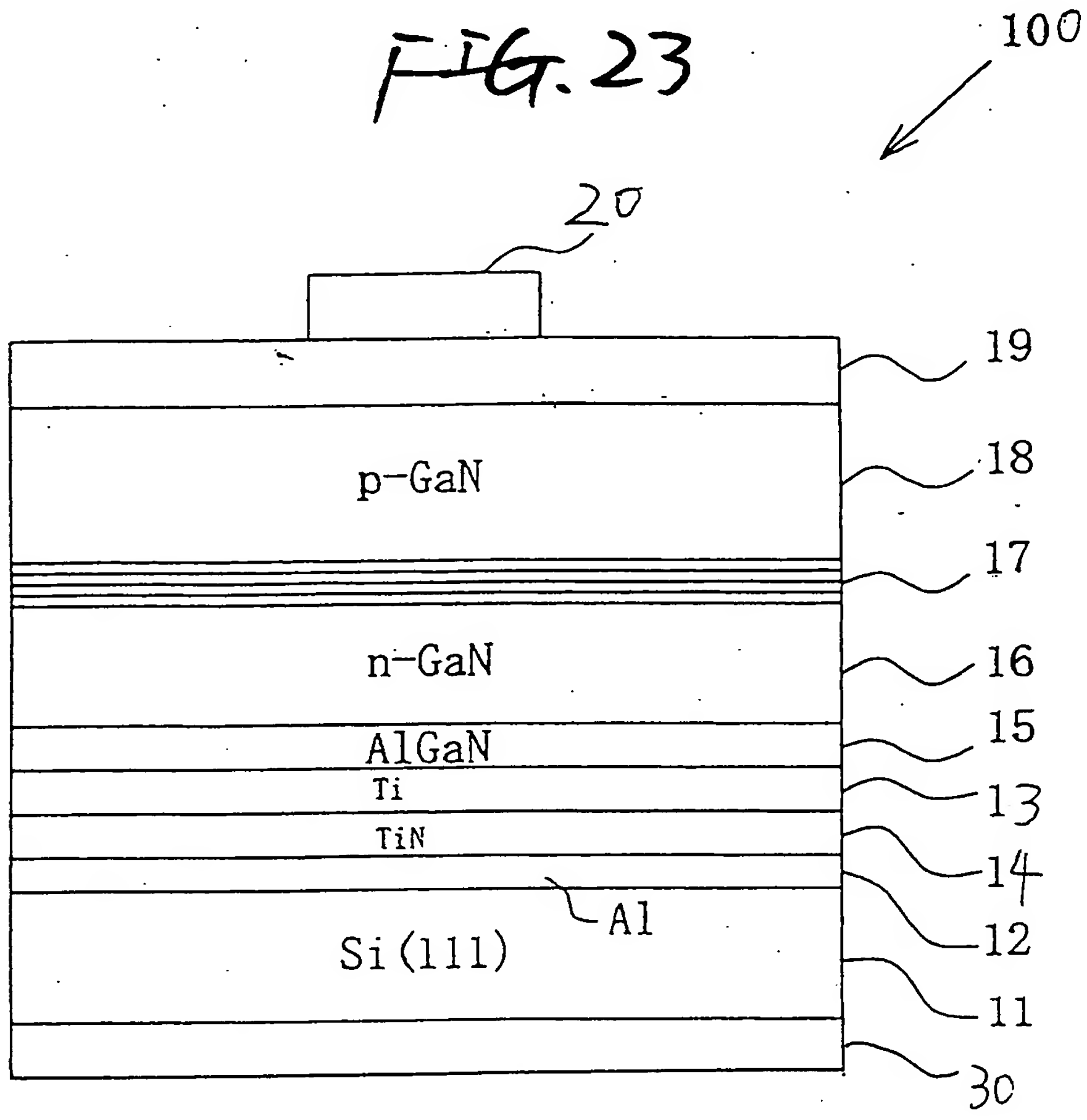
Angle [°]

FIG. 22



X-ray Diffraction Peak Intensity [A.U.]

FIG. 23



10020460-121801

FIG. 24

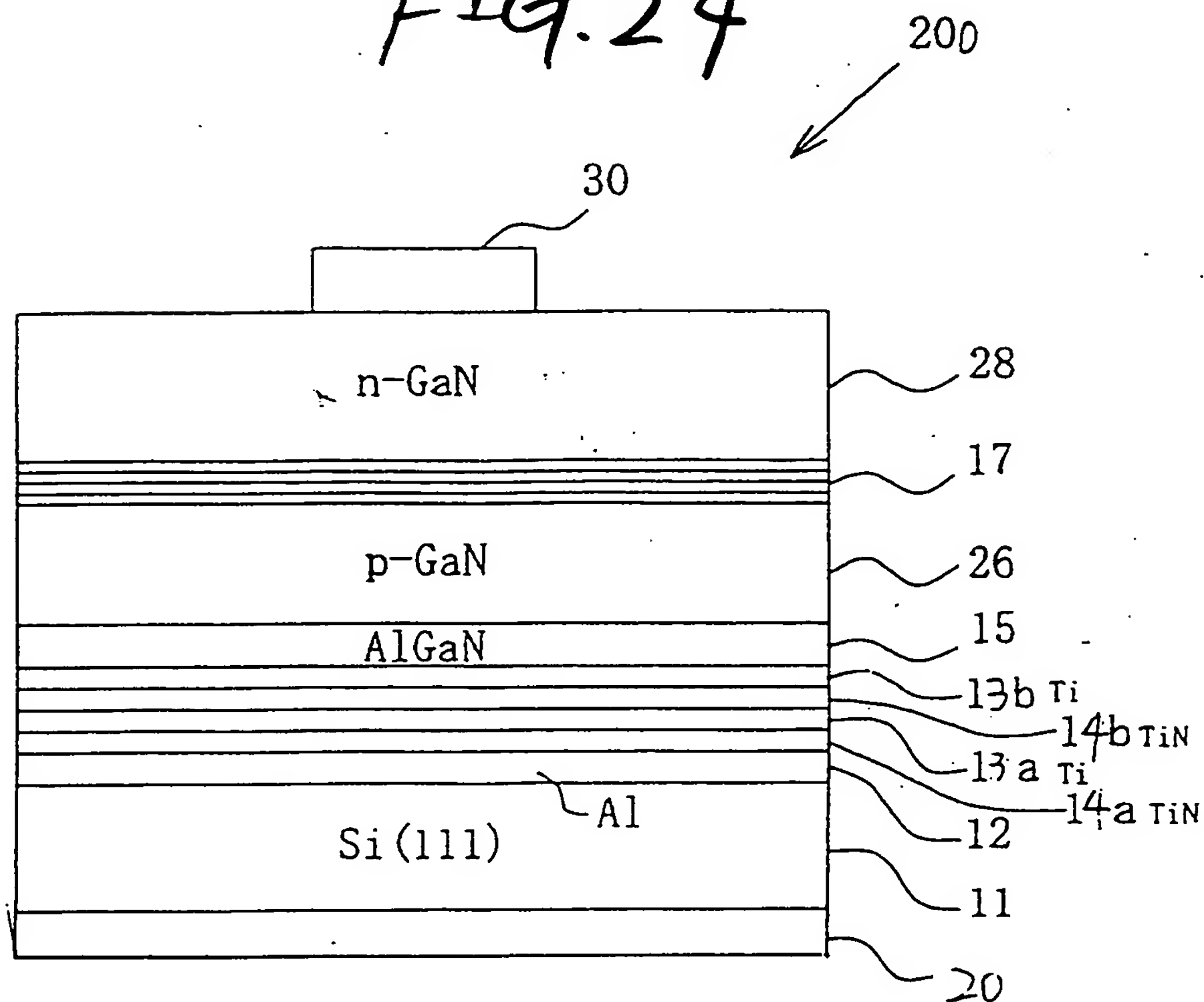


FIG. 25

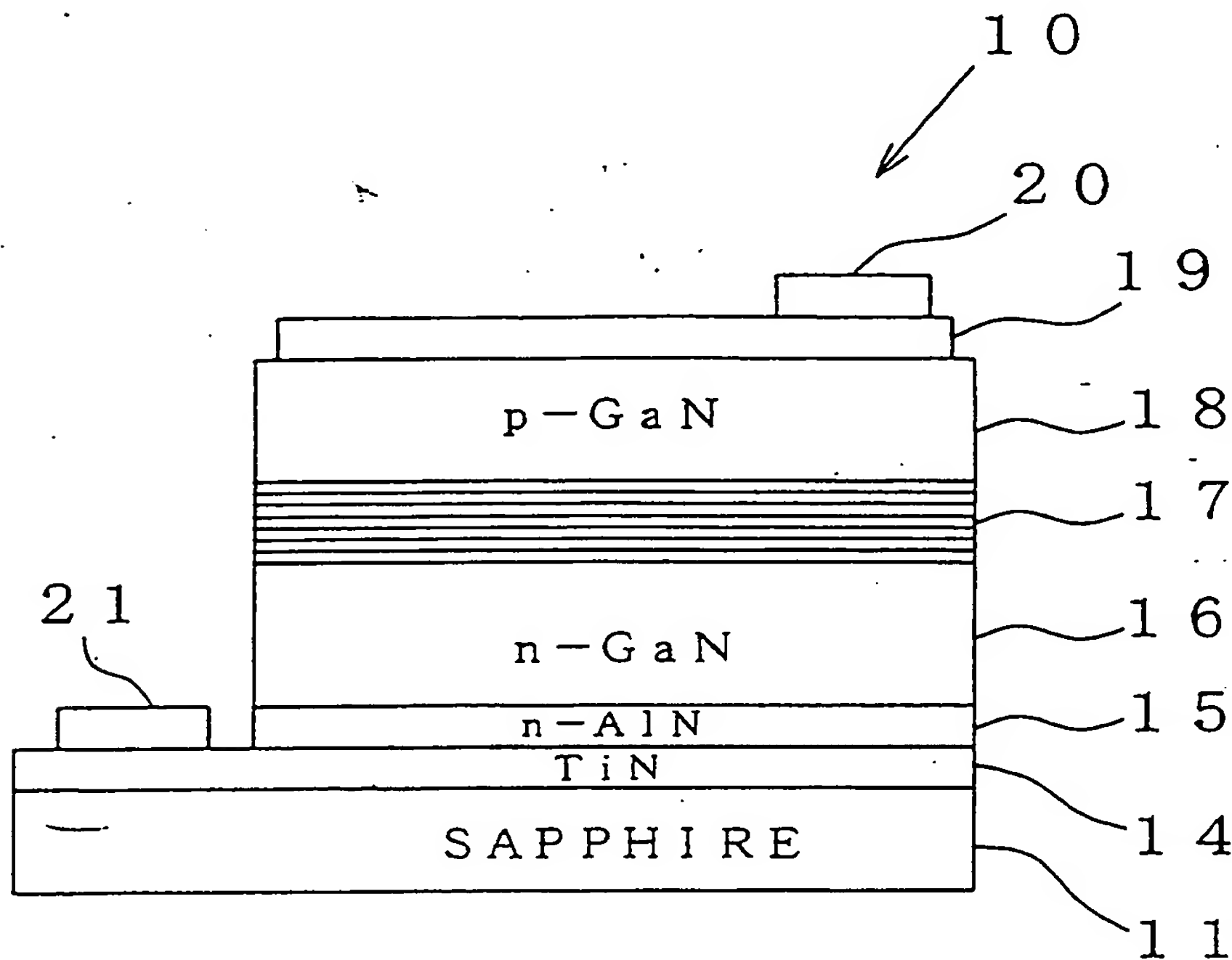


FIG. 26

